

TITLE RUN LENGTH BASED CONNECTED COMPONENTS AND CONTOUR FOLLOWING FOR
ENHANCING THE PERFORMANCE OF CIRCLED REGION EXTRACTION ALGORITHM

INVENTOR'S NAME JINHONG K. GUO

ATTORNEY GREGORY A. STOBBS Harness, Dickey & Pierce, P.L.C.

ATTORNEY DKT. NO. 9432-000123

1/8

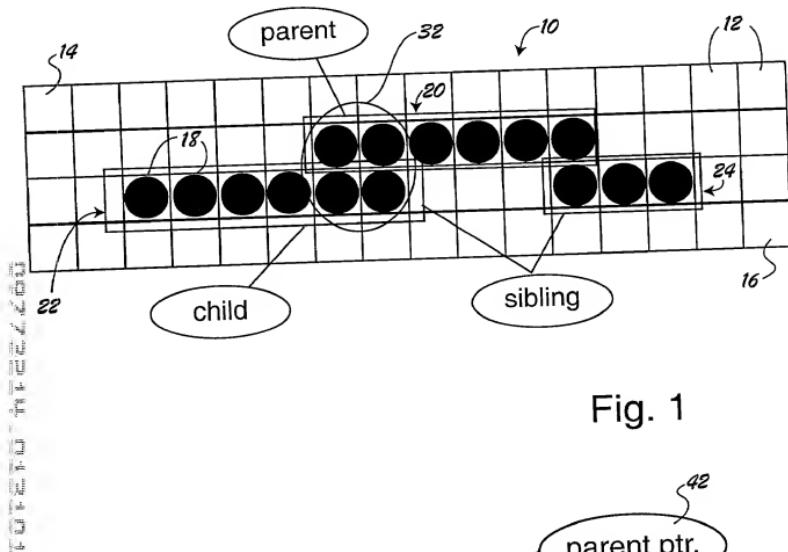


Fig. 1

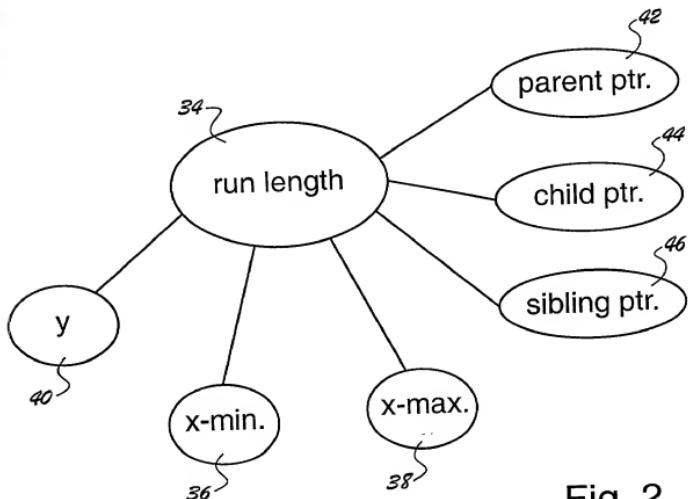


Fig. 2

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2/8

50

run length k -->

run length s -->

run length j -->

560

scan image
for run length
and for each run length j:

562

if j vertically adjacent
with run length k from
previous row

populate j's parent
data structure with k

564

566

is k's child data structure
currently empty (NULL)?

populate k's child
data structure with j

568

No

570

Else if k's child data stucture
is not empty
(contains other child s)

populate j's sibling
data structure with value
stored as k's child s

572

574

while s' sibling data
structure is not
empty (not NULL)

populate s' sibling
data structure with value
stored as

576

578

populate s's sibling
data structure with reference
to run length j

Fig. 3

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3/8

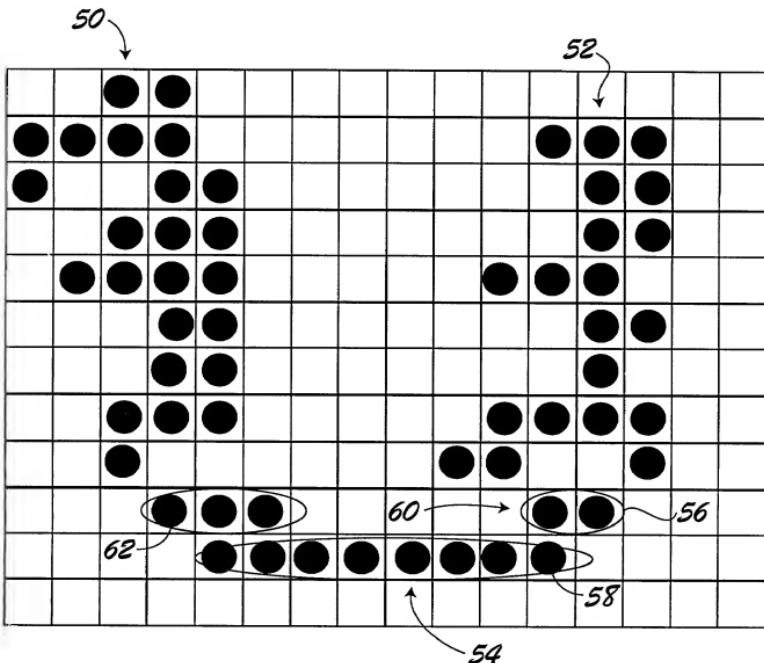


Fig 4

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ATTORNEY DKT. NO. 9432-0000123

4/8

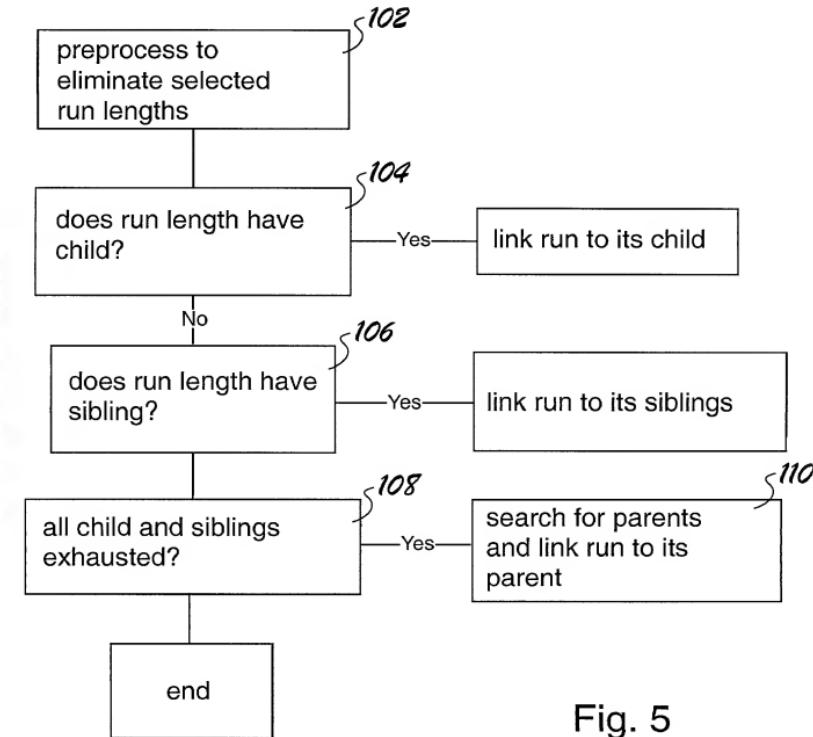


Fig. 5

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5/8

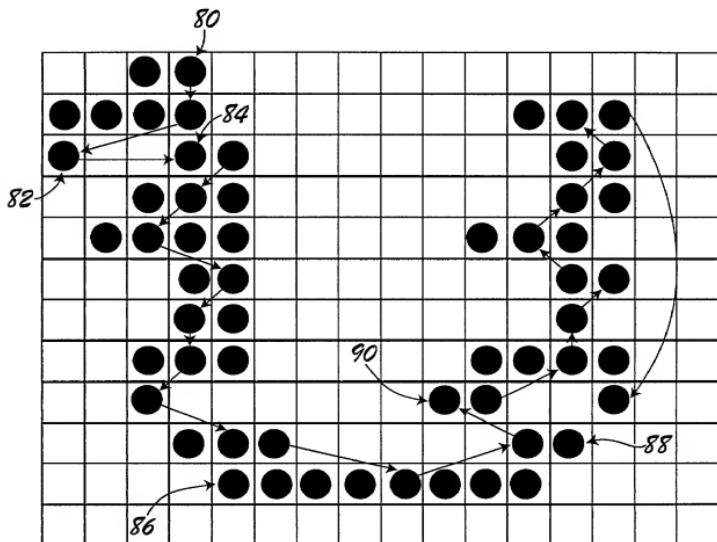


Fig 6

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6/8

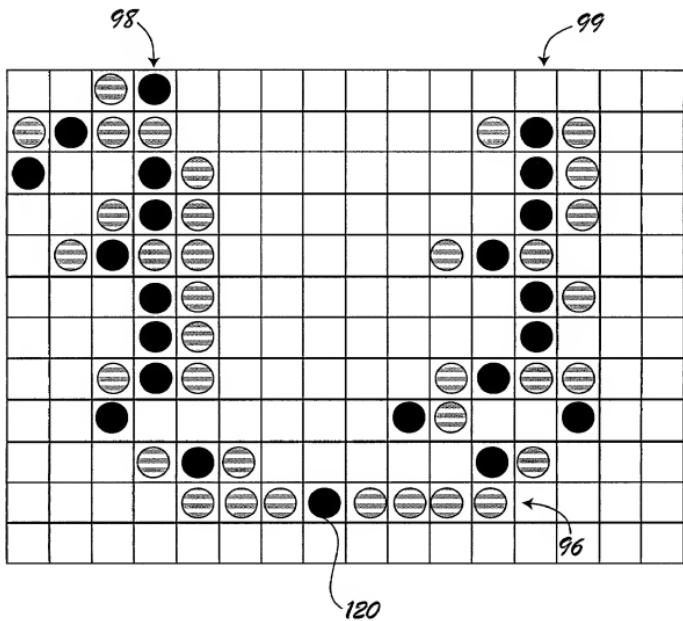


Fig 7

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7/8

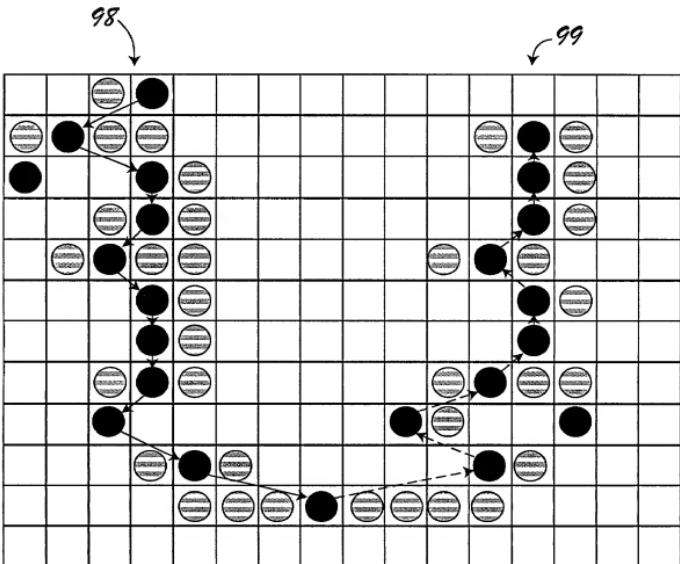


Fig 8

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8/8

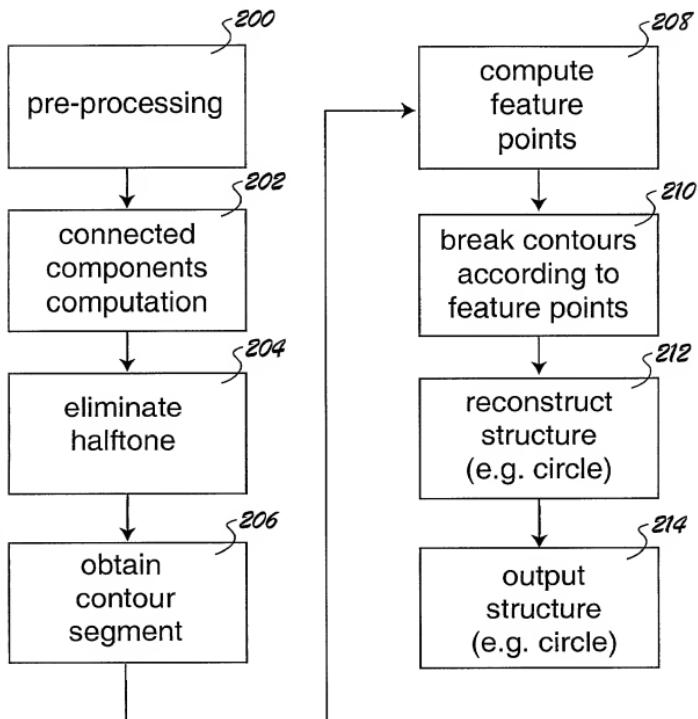


Fig. 9